ABBOTT, T.M.C., SHAFTER, A.W., WOOD, J.H., TOMANEY, A.B., and HASWELL, C.A. DO Leonis: A New
Eclipsing Cataclysmic Variable
ABT, H.A.:
Trends Toward Internationalization in Astronomical Literature
Publication Characteristics of Members of the American Astronomical Society
ADELMAN,S.J. See COWLEY,C.R.; see also PHILIP,A.G.D.; see also RYABCHIKOVA,T.A.
ADELMAN, S. J. and PHILIP, A.G.D. A Comparison of KPNO CCD and Coadded DAD Photographic
Spectroscopic Data
ALLER, L.H. The Chemical Compositions of Gaseous Nebulae
See also KEYES,C.D.
APARICIO,A. See SALVADOR,F.
ARMUS,L. An Optical Investigation of Powerful Far-Infrared Galaxies (abstract)
ARP, H. Comment on the Discordant Redshift Pair VV 76 (NGC 4496A, B). 436
ARP, H. C. See SULENTIC, J. W.
AYRES,T.R. Signal-to-Noise Ratios in IUE SWP-LO Spectra of Chromospheric Emission-Line
Sources
BAGNUOLO JR., W.G. See TSAY, WS.
BAGNUOLO UR., W.G. and KAMPER, K.W. Passive Interspectroscopy
BAGNUOLO JR., W.G., FURENLID, I.K., GIES, D.R., BARRY, D.J., RUSSELL, W.H., and DORSEY, J.F.
The Multi-Telescope Telescope: A Cost-Effective Approach to Fiber-Fed Spectroscopy 604
BARRY,D.J. See BAGNUOLO JR.,W.G.
BARVAINIS,R. See CLEMENS,D.P.
BECK, S.C. See WOLK, S.K.
BEERS,T.C. See DOINIDIS,S.P.
CERGERON,P. See LIEBERT,J.
BESSELL,M.S. UBVRI Passbands
BICA,E. See SANTOS JR.,J.F.C.
BINETTE, L., CALVET, N., CANTO, J., and RAGA, A.C. Balmer Decrements in Seyfert 2 Galaxies 723
BISHT,R.S., IYENGAR,K.V.K., and TANDON,S.N. A Double-Beam Photoelectric Seeing Monitor 599
BONANNO, G. and DI BENEDETTO, R. A CCD Camera for the Echelle Spectrograph at Catania
Astrophysical Observatory
BOOTH, C.H. See BUFFINGTON, A.
BOPP, B. W. See DEMPSEY, R. C.; see also GRIFFIN, R. F.
BOTHUN,G.D. See FISCHER,P.
BOYD.W.T. See WALTER.F.M.
BRAVO, J. See HAMUY, M.
BRUEGMAN,D.W. See CRENSHAW,D.M.
BRUGEL, E.W. See DOMIK, G.
BUFFINGTON, A. and GELLER, M.R. A Photoelectric Astrometric Telescope Using a Ronchi Ruling. 200
BUFFINGTON, A., HUDSON, H.S., and BOOTH, C.H. A Laboratory Measurement of CCD Photometric
and Dimensional Stability
BURBIDGE, E. M. See ZHENG, W.
CAILLAULT, JP. The M-Dwarf Contribution to the Diffuse Soft X-Ray Background Revisited 989
CALVET,N. See BINETTE,L.
CAMPBELL,B. See WALKER,G.A.H.
CAMPBELL,B., LAMBERT,D.L., and MAILLARD,JP. On a Search for 17 0 in Super-Metal-Rich
Red Giants
CANTO, J. See BINETTE, L.
CARNEY, B.W. See PHILLIPS, M.M.
CHAVIRA,E. See RODRIGUEZ,L.F.
CHEN.JS. See WEI.MZ.
CHIOSI,C. The Evolution of Stars of Medium Mass
CHOLAKYAN, V.G. See GURZADYAN, G.A.
CHRISTENSEN, C.G. See THE, P.S.
CHROMEY, F.R. See PHILIP, A.G.D.
CIARDULLO, R., TAMBLYN, P., and PHILLIPS, A.C. A Search for Novae in M 31 Globular Clusters1113
CLEMENS, D.P. and TAPIA, S. Toward Selection of Intermediate-Magnitude Polarization
Standards 179
CLEMENS, D.P., LEACH, R.W., BARVAINIS, R., and KANE, B.D. MILLIPOL, a
Millimeter/Submillimeter Wavelength Polarimeter: Instrument, Operation, and
Calibration
CONDON, J. J. See MACHALSKI, J.
COPETTI,M.V.F. Integrated Photoelectric Photometry of Nine Planetary Nebulae
COSTA, E.:
Coordinates and RI Photometry of Large Magellanic Cloud Carbon Stars
Erratum: "Coordinates and RI Photometry of Large Magellanic Cloud Carbon Stars" [Pub.
A.S.P., 102, 789 (1990)]
COSTA,J.M. See DOCOBO,J.A.
COWLEY, C.R. and ADELMAN, S.J. Line Identification Studies Using Traditional Techniques
and Wavelength Coincidence Statistics1077

CONTRACTOR IN THE LOW-DISCOURT OF THE LOW-DISCOURT
CRENSHAW, D.M., BRUEGMAN, D.W., and NORMAN, D.J. Camera Artifacts in IUE Low-Dispersion
Spectra
DAVIDOVA, E.S. See RYABCHIKOVA, T.A.
DAWSON, D. W. See GRICE, N. A.
DE CARVALHO,R. See THOMPSON,D.J.  DEMERS,S., KUNKEL,W.E., and GRONDIN,L. CCD Photometry of Cluster 1 of Fornax
DEMPSEY, R. See GRIFFIN, R.F.
DEMPSEY, R.C., PARSONS, S.B., BOPP, B.W., and FEKEL, F.C. HD 43246 and HD 127208: Two
Unusual F-G + B Binary Systems
DEPOY,D.L., GREGORY,B., ELIAS,J., MONTANE,A., PEREZ,G., and SMITH,R.M. The Cerro Tololo
Inter-American Observatory Infrared Spectrometer1433
DI BENEDETTO,R. See BONANNO,G.
DJORGOVSKI,S. See THOMPSON,D.J.
DJORGOVSKI,S., THOMPSON,D.J., VIGOTTI,M., and GRUEFF,G. Spectroscopy of Radio Sources
from the Third Bologna Survey
DOBSON, A.K. Activity, Metallicity, Helium, and the Hyades Anomaly
DOINIDIS, S.P. and BEERS, T.C. Photoelectric UBV Photometry of Northern Stars from the HK
Objective-Prism Survey
DOMIK,G., BRUGEL,E.W., STENCEL,R.E., PANG,J., and VASUDEVAN,S. Workstation-Based
Preprocessing of IRAS Sky-Flux Images1167
DORSEY, J. F. See BAGNUOLD JR., W. G.
DOTTORI,H. See SANTOS JR.,J.F.C.
DOWNES, R.A. See SZKODY, P.
DUBOIS,P. See PHILIP,A.G.D.
EDITOR, PASP:
Editor's Notice
A.S.P. Conference Series
Editor's Notice
A.S.P. Conference Series
A.S.P. Conference Series
Index to Volumes 95-100 (1983-1988)
Editor's Notice
A.S.P. Conference Series
Editor's Notice
A.S.P. Conference Series
A.S.P. Conference Series
A.S.P. Conference Series
Editor's Notice
Editor's Notice
A.S.P. Conference Series
A.S.F. Conference Series 1092 Editor's Notice. 1095
A.S.P. Conference Series 1228
Editor's Notice 1230
IAU Astronomical Radiation Source Designation System
A.S.P. Conference Series
IAU Astronomical Radiation Source Designation System
Editor's Notice
A.S.P. Conference Series
IAU Astronomical Radiation Source Designation System
Editor's Notice1447
EGGEN, O. J.:
K- and M-Type Dwarf Stars Within 25 Parsecs of the Sun. I. The Age-Chromospheric
Activity Relation from H-Alpha Equivalent Widths
Large and kinematically Unbiased Samples of G- and K-Type Stars. V. Evolved Stars in
the Selected Areas at +15 Declination
Large and Kinematically Unbiased Samples of G- and K-Type Stars. VI. Evolved Stars
in the Moore-Paddock-Wayman Sample
EISBERG, J. Eddington's Stellar Models (abstract)
ELIAS, J. See DEPOY, D.L. EVANS, N.R. The Orbit and Colors of the Cepheid S Muscae
EVANS, N.R., SZABADOS, L., and UDALSKA, J. Cepheid Companions? FM Aquilae, FN Aquilae, RX
Aurigae, Y Lacertae, and RS Orionis
FALOMO, R. and TREVES, A. PG 1553+11: A Bright Optically Selected BL Lacertae Object1120
FEIBELMAN, W.A. See KEYES, C.D.
FEKEL, F.C. See DEMPSEY, R.C.
FERNIE, J.D.:
R Coronae Borealis in 1988
89 Herculis and HD 161796 in 1988
Remarkable Developments in Delta Coronae Borealis
Y Ophiuchi Revisited
V441 Herculis and V814 Herculis in 1989

R Coronae Borealis in 19891146
FISCHER, P., HESSER, J.E., HARRIS, H.C., and BOTHUN, G.D. The Globular-Cluster System of the
Edge-On Sb Galaxy NGC 5170 5
FITZGERALD, M.P., HARRIS, G.L.H., and REED, B.C. The Moderately Young Open Cluster NGC 2353 865
FITZPATRICK, E.L. See WALBORN, N.R.
FLOYD,R.D. See LOCKWOOD,G.W.
FORBES, F.F. See TSAY, WS.
FURENLID, I. and FURENLID, L. A Variation of the Cross-Correlation Technique
FURENLID, I.K. See BAGNUOLO JR., W.G.
FURENLID, L. See FURENLID, I.
GARNETT, D.R. Nitrogen and Sulfur in Irregular Galaxies (abstract)
GEISLER, D. Washington CCD Standard Fields
GELLER,M.R. See BUFFINGTON,A.
GIES,D.R. See BAGNUOLO JR.,W.G.
GIRARD,T.M. See LOPEZ,C.E.
GLORIA, K.A. Period Length and the Blazhko Effect in RR Lyrae Stars
GOLDSTEIN, J. J. Absolute Wind Measurements in the Lower Thermosphere of Venus Using
Infrared Heterodyne Spectroscopy (abstract)493
GRAHAM, J.A. See HEYER, M.H.; see also LEIBUNDGUT, B.; see also PHILLIPS, M.M.; see also
ZICKGRAF, FJ.
GRAHAM, J.A. and HEYER, M.M. New Optical Features in L1551 and HH30
GREEN, P.J. and MARGON, B. Spectroscopy of Faint Halo Carbon Stars
GREGORY, B. See DEPOY, D.L.
GRICE, N.A. and DAWSON, D.W. The Open Cluster NGC 6716
GRIEVE, G.R. See UNDERHILL, A.B.
GRIFFIN, R.F., PARSONS, S.B., DEMPSEY, R., and BOPP, B.W. Orbital Elements and Optical
Spectroscopy of the Enigmatic cF + B Binary System HD 207739
GRIGSBY, J. A. Fundamental Properties and Mass Loss in Hot, Near-Main-Sequence Stars
(abstract)
GRONDIN,L. See DEMERS,S.
GRONWALL,C. See MASSEY,P.
GROSS,B.A. See SCHMIDT,E.G.
GRUEFF,G. See DJORGOVSKI,S.
GULLIVER, A.F. and HILL, G. A Test of Selected Comparison Line-Fitting Techniques1200
GULLIVER, A.F. and STADEL, J.G. Automated Spectral Line Identification
GURWELL, M. See HODGE, P.
GURWELL, M. and HODGE, P. Galaxies Behind the Large Magellanic Cloud
GURZADYAN, G.A., CHOLAKYAN, V.G., KONDO, Y., TERZIAN, Y., and SHORE, S.N. The Mg II h and k
Interstellar Lines in the Spectrum of the G-Type Giant HD 156854
GUSSIE, G.T. and TAYLOR, A.R. Erratum: "Radial and Expansion Velocities of Compact
Planetary Nebulae" [Pub. A.S.P., 101, 873 (1989)]
GUTIERREZ-MOREND, A. and MOREND, H. Observations of the Symbiotic Star AS 296
HAKKILA, J. and PIERCE, J.N. The Visual Counterpart to Suspected Variable NSV 1710 586
HALBEDEL, E.M. Photometry of HD 50064: A Be Supergiant Star with a P Cygni Profile at H
Alpha
HAMUY,M. See PHILLIPS,M.M.
HAMUY, M., SUNTZEFF, N.B., BRAVO, J., and PHILLIPS, M.M. SN 1987A in the Large Magellanic
Cloud. IV. Photometry from the Spectrophotometry
HARDING, P. See RODGERS, A.W.
HARRIS,G.L.H. See FITZGERALD,M.P.
HARRIS, H.C. See FISCHER, P.
HARRIS, W. E.:
A Comment on Image Detection and the Definition of Limiting Magnitude
CCD Photometry of Globular Clusters in NGC 3377966
HARTMANN,L.W. See RODRIGUEZ,L.F.
HASWELL,C.A. See ABBOTT,T.M.C.
HAYES,D.S. See PHILIP,A.G.D.
HAZEN, M.L. See WALDEE, S.R.
HEBER, U. See HOWARTH, I.D.
HESSER, J.E. See FISCHER, P.
HEYER, M.H. and GRAHAM, J.A. HH55 and Its Energy Source
HEYER, M. M. See GRAHAM, J.A.
HILL JR., L.C. Erratum: "Spatial Thinking and the Astronomical Endeavor: Theoretical
Issues and Pedagogical Implementations" (abstract) [Pub. A.S.P. 101, 1061 (1989)] 495
HILL,G. See GULLIVER,A.F.
HJELLMING, M.S. Rapid Mass Transfer in Binary Systems (abstract)
HODGE, P. See GURWELL, M.; see also KRIENKE, K.; see also STROBEL, N.V.
HODGE, P. and LEE, M.G. The H II Regions of IC 10
HODGE, P., JADERLUNG, E., and MEAKES, M. UBVR CCD Photometry of the Spiral Galaxy NGC 29031263
HODGE, P., LEE, M.G., and GURWELL, M. The H II Regions of IC 16131245
HOLTZMAN, J.A. Stellar Photometry with the Wide Field/Planetary Camera of the Hubble
Space Telescope
Space Telescope
Space Telescope

HOWELL, S.B. See LEVY, D.H.
HOWELL, S.B., SZKODY, P., KREIDL, T.J., MASON, K.O., and PUCHNAREWICZ, E.M. CCD Time-Resolved
Photometry of Faint Cataclysmic Variables. III
HUBE,D.P. See MARTIN,B.E.
HUDSON, H.S. See BUFFINGTON, A.
HUMPHREYS,R.M. See ZICKGRAF,FJ.
HUNTER,D.A. and WINKELMAN,S. Ground-Based CCD Observations of Two OB Associations of M
31 Obtained Through Replicas of Two Wide Field/Planetary Camera Filters
HUTCHINGS, J.B. Distant QSOs Behind Foreground Clusters of Galaxies
HUTCHINGS.J.B. and MCCLURE,R.D. High-Resolution Optical Imaging of Three QSOs
INGERSON, T. See LUTZ, T.E.
IRVINE, N.J. New Bright Hydrogen Emission Stars III
IRWIN, A. W. See WALKER, G. A. H.
IYENGAR, K.V.K. See BISHT, R.S.
JADERLUNG, E. See HODGE, P.
JIANG,ZJ. See WEI,MZ.
JOHNSON, R. See WALKER, G.A.H. JONER, M.D. See POWELL, J.M.
JONER, M.D. and TAYLOR, B.J. Cousins VRI Standard Stars in the M 67 Dipper Asterism1004
KAMPER, K.W. See BAGNUOLO JR., W.G.
KANE, B. D. See CLEMENS, D. P.
KELLEY, D.H. See MILONE, E.F.
KENNICUTT JR., R.C. See STROBEL, N.V.
KEPLER, S.O. See SCHRODER, M.F.S.
KEYES, C.D., ALLER, L.H., and FEIBELMAN, W.A. The Spectrum of NGC 7027
KING, J.R. IRAS Observations of Delta Scuti Variables: Implications for Main-Sequence
Mass Loss and an IR Period-Luminosity Relation
KING, J.R. and LIU, T. The Delta Scuti Variable AI Canum Venaticorum: Short-Period
Variables, Spectroscopic Binaries, and The Bright Star Catalogue
KIPPER, T. and WALLERSTEIN, G. Lithium Abundances in SC Stars
KONDO, Y. See GURZADYAN, G.A.
KORISTA, K.T. The Nature of Emission-Line Profile Variability and the Structure of the
Line-Emitting Regions in Active Galactic Nuclei (abstract)
KREIDL, T.J. See HOWELL, S.B.; see also LEVY, D.H.; see also RAKOS, K.D.
KRIENKE, K. and HODGE, P. The Structure of the Irregular Galaxy, NGC 3239
KRISCIUNAS,K. Further Measurements of Extinction and Sky Brightness on the Island of
Hawaii
KUNKEL, W. E. See DEMERS, S.
LAMBERT,D.L. See CAMPBELL,B.
LANDOLT,A.U. The Variable Star SA 106 1024
LARSON.R.B. Galaxy Building
LEACH,R.W. See CLEMENS,D.P.
LEE, M.G. See HODGE, P.
LEIBUNDGUT, B., PHILLIPS, M.M., and GRAHAM, J.A. SN 1984IAnother Type Ib Supernova
LESTER, J.B. Another Systematic Effect in the Determination of Stellar Abundances
Bright Infrared Stars
LEVY, D. H., HOWELL, S. B., KREIDL, T. J., SKIFF, B. A., and TOMBAUGH, C. W. The Historical
Discovery and Recent Confirmation of a New Cataclysmic Variable in Corvus
LIEBERT, J., BERGERON, P., and SAFFER, R.A. Atmospheric Parameters of the White-Dwarf
Companion to HD 74389
LILLER, W. See SCHAEFER, B.E.
LIU, T. See KING, J.R.
LOCKWOOD, G.W., FLOYD, R.D., and THOMPSON, D.T. Sky Glow and Outdoor Lighting Trends Since
1976 at the Lowell Observatory
LOPEZ, C.E. and GIRARD, T.M. Accurate Positions for Variable and Suspected Variable Stars
South of -67
LOUTH, H. See UNDERHILL, A.B.
LUTZ, T.E., INGERSON, T., SCHUMACHER, G., and SMITH, D. Locating Stars with a
Multiple-Object Spectrograph: Argus
LYDER, D.A. See MARTIN, B.E.
MACHALSKI, J. and CONDON, J.J. VLA and CCD Observations of the Radio Source Group GB2
1401+350
MAILLARD, JP. See CAMPBELL, B.
MALLIK, S.V. Role of Nonthermal Velocity Fields in Determining the H-Alpha Widths in
Supergiant Chromospheres
MANLEY, T. See ZICKGRAF, FJ.
MARCIALIS, R.L. The Pluto-Charon System as Revealed During the Mutual Events (abstract)1224
MARGON,B. See GREEN,P.J.
MARSDEN,B.G. Comets, Asteroids, and Their Orbits: Central Issues in the Astronomy of
Two-Hundred Years Ago (abstract)
MARTIN, B.E., HUBE, D.P., and LYDER, D.A.:
The Ellipsoidal Variable 42 Persei: Observations and Model
A Preliminary Light-Curve Analysis for the Early-Type Rinary HD 219634 1375

WIGHT WAS CONTRACTED TO
MASON, K.O. See HOWELL, S.B.
MASSEY, P., GRONWALL, C., and PILACHOWSKI, C.A. The Spectrum of the Kitt Peak Night Sky1046
MATEO,M. See SZKODY,P.
MAZA,J. See PHILLIPS,M.M.
MCALISTER,H.A. See TSAY,WS.
MCCLURE,R.D. See HUTCHINGS,J.B.
MCDAVID,D. Multicolor Polarimetry of Selected Be Stars: 1986-89
MCNAMARA,D.H. See POWELL,J.M.
MEAKES,M. See HODGE,P.
MELNICK,G. See TOWNES,C.H.
MENDES DE OLIVEIRA, C. and SMITH, H.A. Delta-S Measurements for Eight Field RR Lyrae Stars. 652
MILONE, E. F. and KELLEY, D. H. Resource Material for the Teaching of Ancient Astronomy
(abstract)
MONTANE,A. See DEPOY,D.L.
MORENO, H. See GUTIERREZ-MORENO, A.
MORGAN, S. Pulsars as Spiral Arm Tracers
MORRIS, M. and REIPURTH, B. The Optical Form of the Bipolar Preplanetary Nebula IRAS
09371+1212
MORRISON, N.D. and ZIMBA, J.R. Unexpected Effects of a Trap in CCD Echelle Spectra of
B-Type Stars
MUKAI,K. Optimal Extraction of Cross-Dispersed Spectra
MULHOLLAND, J.D. Astrometric Positions of Jupiter VI, Jupiter VII, and Minor Planet
(2153) Akiyama from Table Mountain Observatory with Remarks on Decimalization in
Astronomy
MULLER,S. See RAKOS,K.D.
NICHOLS-BOHLIN, J. See WALBORN, N.R.
NORMAN,D.J. See CRENSHAW,D.M.
OGURA, K. Two Herbig-Haro Objects Discovered by Narrow-Band CCD Imagery
PANG, J. See DOMIK, G.
PARSONS,S.B. See DEMPSEY,R.C.; see also GRIFFIN,R.F.
PASTORIZA,M.G. See SCHRODER,M.F.S.; see also STORCHI-BERGMANN,T.
PEREZ,G. See DEPOY,D.L.
PESCH,P. See SANDULEAK,N.
PESCH,P., WESTPFAHL JR.,D.J., and SIMKIN,S.M. Is the Quasar 3C 232 Embedded in the
Neutral Hydrogen Tail of the Galaxy NGC 3067?427
PHILIP,A.G.D. See ADELMAN,S.J.
PHILIP, A.G.D., CHROMEY, F.R., and DUBOIS, P. Photometry of the Rubin Losee Blue Stars at
the Anticenter
PHILIP, A.G.D., HAYES, D.S., and ADELMAN, S.J. Ultraviolet Spectra of Field
Horizontal-Branch A-Type Stars. II
PHILLIPS,A. See ZICKGRAF,FJ.
PHILLIPS,A.C. See CIARDULLO,R.
PHILLIPS,M.M. See HAMUY,M.; see also LEIBUNDGUT,B.
PHILLIPS, M.M., HAMUY, M., MAZA, J., RUIZ, M.T., CARNEY, B.W., and GRAHAM, J.A. The Light
Curve of the Plateau Type II SN 1983K
PIERCE,J.N. See HAKKILA,J.
PILACHOWSKI,C.A. See MASSEY,P.
POLITANO, M.J. Theoretical Statistics of Zero-Age Cataclysmic Variables (abstract) 375
POWELL, J.M., JONER, M.D., and MCNAMARA, D.H. A Photometric and Spectroscopic Study of V567
Ophiuchi
PRESSBERGER,R. See RAKOS,K.D.
PROSSER.C.F. New Large Proper-Motion Stars in the Direction of the Alpha Persei Cluster 96
PUCHNAREWICZ, E.M. See HOWELL, S.B.
RAGA,A.C. See BINETTE,L.
RAKOS,K.D., WEISS,W.W., MULLER,S., PRESSBERGER,R., WACHTLER,P., SCHOMBERT,J.M., and
KREIDL, T.J. VULCAN: A Low-Resolution Spectrophotometer for Measuring the Integrated
Colors of Galaxies
REED,B.C. See FITZGERALD,M.P.
REIPURTH,B. See MORRIS,M.
RICHARDSON,D. See WALKER,G.A.H.
RODGERS, A.W. and HARDING, P. The Calcium Abundances in NGC 6584, NGC 6864, and NGC 6981 235
RODRIGUEZ, L.F., HARTMANN, L.W., and CHAVIRA, E. Radio Continuum from FU Orionis Stars1413
RUCINSKI, S.M. Rotation of FK Comae
RUIZ,M.T. See PHILLIPS,M.M.
RUSSELL, W.H. See BAGNUOLO JR., W.G.
RYABCHIKOVA, T.A., DAVIDOVA, E.S., and ADELMAN, S.J. Spectrum Variability of the Silicon Ap
Star HD 192913
SAFFER,R.A. See LIEBERT,J.
SAHA, A. and WHITE, R.E.:
A New Velocity Curve of the RR Lyrae Star TU Ursae Majoris: Evidence for Duplicity 148
Erratum: "A New Velocity Curve of the RR Lyrae Star TU Ursae Majoris: Evidence for
Duplicity" [Pub. A.S.P., 102, 148 (1990)]
SALVADOR, F. and APARICIO, A. The Astronomy and Astrology of Isidore of Seville (abstract). 1337
SAMEC,R.G. V728 Herculis: An Active W Ursae Majoris System of F Spectral Type 994

SANDULEAK, N. and PESCH, P. On a Possible White-Dwarf Companion to HD 74389 440
SANTOS JR. J. F.C., BICA, E., and DOTTORI, H. Spectral Synthesis Aided by the H-R Diagram:
The Open Cluster M 11
SCHAEFER, B.E. Telescopic Limiting Magnitudes
SCHAEFER, B.E. and LILLER, W. Refraction Near the Horizon
SCHMIDTKE, P.C. Optical Variability of the Low-Mass, X-Ray Binary 1556-605
SCHOMBERT, J.M. See RAKOS, K.D.
SCHRODER, M.F.S., PASTORIZA, M.G., and KEPLER, S.O. CCD Surface Photometry of the Edge-On
Galaxy NGC 6835
SCHUMACHER,G. See LUTZ,T.E.
SCHWEIZER, F. and SEITZER, P. The Peculiar, Off-Centered Ring of the Sa Galaxy NGC 3611 615
SEIMENIS, J. Approximate Calculation of Orbits in Dynamical Systems (abstract)
SEITZER,P. See SCHWEIZER,F.
SHAFTER,A.W. See ABBOTT,T.M.C.
SHARP, N.A. Imaging of the NGC 5296/7 System
SHIBATA,K.M. See TAMURA,S.
SHORE, S.N. See GURZADYAN, G.A.
SIMKIN,S.M. See PESCH,P.
SIMPSON, C.E. Accurate Positions for Objects in "The Second Byurakan Spectral Sky Survey
[111]"
SITKO,M.L. See ZICKGRAF,FJ.
SKIFF, B.A. See LEVY, D.H.
SKINNER, S.L. See WALTER, F.M.
SMITH.D. See LUTZ.T.E.
SMITH, H. A. Delta-S Metal Abundances of Field RR Lyrae Stars
See also MENDES DE OLIVEIRA,C.
SMITH.H.E. See ZHENG.W.
SMITH,R.M. See DEPOY,D.L.
SOKER, N. H-Function Evolution in Collisionless Self-Gravitating Systems
STADEL, J.G. See GULLIVER, A.F.
STENCEL.R.E. See DOMIK.G.
STERN, S. A.:
The Evolution of Comets and the Detectability of Extrasolar Oort Clouds (abstract) 612
On the Number Density of Interstellar Comets as a Constraint on the Formation Rate of
Planetary Systems
STETSON, P.B. Dn the Growth-Curve Method for Calibrating Stellar Photometry with CCDs932
STORCHI-BERGMANN.T. and PASTORIZA.M.G. On the Sulfur and Nitrogen Abundances in the
Nucleus of Seyfert 2 and Liner Galaxies
STROBEL, N.V., HODGE, P., and KENNICUTT JR. R.C. H-Alpha Mapping of DD0 53
SULENTIC, J. W., ZHENG, W., and ARP, H.C. N2841-UB3: A QSO with Unusually Strong Optical Fe
II Emission
SUNTZEFF, N.B. See HAMUY, M.; see also WALKER, A.R.
SZABADOS, L. See EVANS, N.R.
SZKODY,P. See HOWELL,S.B.
SZKODY,P., DOWNES,R.A., and MATEO,M. IUE and Optical Data During the Low State of
H0538+608 (BY Camelopardalis)
TAKADA-HIDAI,M. The Sulfur Abundance in HR 4049 (HD 89353)
TAMBLYN,P. See CIARDULLO,R.
TAMURA, S. and SHIBATA, K.M. Expansion Analyses on Low-Excitation Planetary Nebulae with
Stellar Images
TANDON,S.N. See BISHT,R.S.
TAPIA,S. See CLEMENS,D.P.
TAPIA,S. See CLEMENS,D.P. TAYLOR,A.R. See GUSSIE,G.T.
TAPIA,S. See CLEMENS,D.P. TAYLOR,A.R. See GUSSIE,G.T. TAYLOR,B.J. See JONER,M.D.
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P.  TAYLOR,A.R. See GUSSIE,G.T.  TAYLOR,B.J. See JONER,M.D.  TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P. TAYLOR,A.R. See GUSSIE,G.T. TAYLOR,B.J. See JONER,M.D. TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P. TAYLOR,A.R. See GUSSIE,G.T. TAYLOR,B.J. See JONER,M.D. TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P. TAYLOR,A.R. See GUSSIE,G.T. TAYLOR,B.J. See JONER,M.D. TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P. TAYLOR,A.R. See GUSSIE,G.T. TAYLOR,B.J. See JONER,M.D. TENN,J.S. David Gill: The Education of an Astronomer (abstract)
TAPIA,S. See CLEMENS,D.P. TAYLOR,A.R. See GUSSIE,G.T. TAYLOR,B.J. See JONER,M.D. TENN,J.S. David Gill: The Education of an Astronomer (abstract)

TREVES,A. See FALOMO,R.
TSAY, WS., BAGNUOLO JR., W.G., MCALISTER, H.A., WHITE, N.M., and FORBES, F.F. Anderson
Mesa, Arizona, as a Site for an Optical Array1339
TURNER, D.G. Transformations Between Stromgren and UBV Colors for Early-Type Stars1331
UDALSKA, J. See EVANS, N.R.
UNDERHILL, A.B., GRIEVE, G.R., and LOUTH, H.:
The Period of V444 Cygni and Its Rate of Change
Erratum: "The Period of V444 Cygni and Its Rate of Change" [Pub. A.S.P., 102, 749
(1990)]
VAN DEN BERGH, S. :
Are Protogalaxies Hidden by Dust?
The Frequency of SN Ia in Galaxies of Differing Hubble Type
VEILLEUX, S. A Study of the Structure and Kinematics of the Narrow-Line Region in Seyfert
Galaxies (abstract)
VERTER, F. CO Observations of Galaxies 1985-1989.
VIGOTTI, M. See DJORGOVSKI, S.
WACHTLER, P. See RAKOS, K.D.
WALBORN, N.R. and FITZPATRICK, E.L.:
Contemporary Optical Spectral Classification of the OB Stars: A Digital Atlas
Erratum: "Contemporary Optical Spectral Classification of the OB Stars: A Digital
Atlas" [Pub. A.S.P., 102, 379 (1990)]
WALBORN, N.R., FITZPATRICK, E.L., and NICHOLS-BOHLIN, J. Massa's Star, HD 93840: A New
Extreme BN Supergiant
WALDEE, S.R. and HAZEN, M.L. The Discovery and Early Photographs of the Horsehead Nebula
(abstract)
WALKER, A.R. and SUNTZEFF, N.B. UBVRI CCD Photometry of Stars Near SN 1987A
WALKER, G.A.H., JOHNSON, R., RICHARDSON, D., CAMPBELL, B., IRWIN, A.W., and YANG, S. Cross
Talk in 1872 Reticon Diode Arrays1418
WALKER, M.F. Photoelectric Observations of Moderate to Rapidly Rotating Pre-Main-Sequence
Stars in the Orion Nebula Cluster
WALLER, W. H.:
Emission-Line and Continuum Fluxes from Narrow- and Broad-Band Imagery
Recent Starbirth and Starburst Activity in Nearby Galaxies (abstract)1225
WALLERSTEIN,G. See KIPPER,T. WALTER,F.M., SKINNER,S.L., and BOYD,W.T. BD +24 676: An Intermediate-Mass,
walter, m., Salmaner, L., and burb, w.i. bb +24 6/6: An intermediate-mass, Pre-Main-Sequence Star
WEI,MZ., CHEN,JS., and JIANG,ZJ. The Beijing Astronomical Observatory CCD
Light-Curve Survey System
WEISS, W.W. See RAKOS, K.D.
WELTHER, B.L. Globular Clusters: The Heart of Shapley's Universe (abstract)
WESTERLUND, B. E. See THE, P.S.
WESTPFAHL JR., D.J. See PESCH, P.
WHITE, N.M. See TSAY, WS.
WHITE,R.E. See SAHA,A.
WILSON.R.E. See TERRELL.D.
WINKELMAN, S. See HUNTER, D.A.
WOLK, S.K. and BECK, S.C. On the Possibility of Outflows from Very Low-Mass Companions 745
WOOD, J.H. See ABBOTT, T.M.C.
WOOD, M.A. Astero-Archaeology: Reading the Galactic History Recorded in the White-Dwarf
Stars (abstract)
YANG,S. See WALKER,G.A.H.
ZHENG, W. See SULENTIC, J. W.
ZHENG, W., BURBIDGE, E.M., and SMITH, H.E. Broad [Ne III] Line Emission and Intermediate-Density Gas Around QSO Nuclei
ZICKGRAF, F J., HUMPHREYS, R.M., GRAHAM, J.A., and PHILLIPS, A. CCD Photometric UBVR
Sequences for M 83 and NGC 5128
ZICKGRAF, F J., HUMPHREYS, R.M., SITKO, M.L., and MANLEY, T. CCD Photometric UBVR Sequences
for NGC 2403 and M 81. 925
ZIMBA, J.R. See MORRISON, N.D.

ABUNDANCES:
Activity, Metallicity, Helium, and the Hyades Anomaly. DOBSON, A.K
HARDING,P. 235 The Chemical Compositions of Gaseous Nebulae. ALLER,L.H. 1097 Delta-S Metal Abundances of Field RR Lyrae Stars. SMITH,H.A. 124
HD 192013. Spectrum Variability of the Silicon Ap Star RYABCHIKOVA, T.A., DAVIDOVA, E.S., and ADELMAN, S.J
HR 4049. The Sulfur Abundance in (HD 89353). TAKADA-HIDAI,M
Large and Kinematically Unbiased Samples of G- and K-Type Stars. V. Evolved Stars in the Selected Areas at +15 Declination. EGGEN, O.J
Lithium Abundances in SC Stars. KIPPER, T. and WALLERSTEIN, G
Massa's Star, HD 93840: A New Extreme BN Supergiant. WALBORN, N.R., FITZPATRICK, E.L., and NICHOLS-BOHLIN, J
NGC 7027. The Spectrum of KEYES,C.D., ALLER,L.H., and FEIBELMAN,W.A
On a Search for 17 O in Super-Metal-Rich Red Giants. CAMPBELL, B., LAMBERT, D.L., and
MAILLARD, JP
STORCHI-BERGMANN, T. and PASTORIZA, M.G
ASSOCIATIONS: Ground-Based CCD Observations of Two OB Associations of M 31 Obtained Through
Replicas of Two Wide Field/Planetary Camera Filters. HUNTER, D.A. and WINKELMAN, S 854
ASTEROIDS: See MINOR PLANETS ASTROMETRY:
Accurate Positions for Variable and Suspected Variable Stars South of -67. LOPEZ, C.E.
and GIRARD, T.M
HUDSON, H.S., and BOOTH, C.H
Refraction Near the Horizon. SCHAEFER, B.E. and LILLER, W
A.S.P. Conference Series. EDITOR, PASP
Editor's Notice. EDITOR, PASP
Editor's Notice. EDITOR, PASP
Editor's Notice. EDITOR, PASP
Editor's Notice EDITOR, PASP. 955 Editor's Notice EDITOR, PASP. 1095
Editor's Notice. EDITOR, PASP
Editor's Notice. EDITOR, PASP
Editor's Notice. EDITOR,PASP
ATMOSPHERE: See STARS; SUN
BINARY STARS: General:
The Beijing Astronomical Observatory CCD Light-Curve Survey System. WEI.MZ.,
CHEN, JS., and JIANG, ZJ
Eclipsing:
DO Leonis: A New Eclipsing Cataclysmic Variable. ABBOTT, T.M.C., SHAFTER, A.W., WOOD, J.H., TOMANEY, A.B., and HASWELL, C.A
HD 219634. A Preliminary Light-Curve Analysis for the Early-Type Binary
MARTIN,B.E., HUBE,D.P., and LYDER,D.A
Spectroscopic:
BY Camelopardalis. IUE and Optical Data During the Low State of H0538+608 (). SZKODY,P., DOWNES,R.A., and MATEO,M
Cepheid Companions? FM Aquilae, FN Aquilae, RX Aurigae, Y Lacertae, and RS
Orionis, EVANS, N.R., SZABADOS, L., and UDALSKA, J.,

HD 127208. HD 43246 and: Two Unusual F-G + B Binary Systems. DEMPSEY, R.C., PARSONS, S.B., BOPP, B.W., and FEKEL, F.C
HD 128220. The Spectroscopic Orbit and Evolution of, A System Containing an O Subdwarf. HOWARTH, I.D. and HEBER, U
HD 43246 and HD 127208: Two Unusual F-G + B Binary Systems. DEMPSEY,R.C., PARSONS,S.B., BOPP,B.W., and FEKEL,F.C
A Variation of the Cross-Correlation Technique. FURENLID, I. and FURENLID, L 592
Visual: Orbit of the Visual Binary WDS No. 00550N2338 (ADS 755 AB), DOCDBO, J.A. and
COSTA, J. M
Individual:
42 Persei. The Ellipsoidal Variable: Observations and Model. MARTIN, B.E.,
HUBE, D.P., and LYDER, D.A
Binary System GRIFFIN, R.F., PARSONS, S.B., DEMPSEY, R., and BOPP, B.W 535
S Muscae. The Orbit and Colors of the Cepheid EVANS, N.R
TU Ursae Majoris. A New Velocity Curve of the RR Lyrae Star: Evidence for
Duplicity. SAHA,A. and WHITE,R.E
V444 Cygni. The Period of and Its Rate of Change. UNDERHILL, A.B., GRIEVE, G.R.,
and LOUTH, H
XZ Canis Minoris. The Photometric Elements of TERRELL,D. and WILSON,R.E
BLACK HOLES:
BOOK ROLLEYS:
CATACLYSMIC OBJECTS:
DO Leonis: A New Eclipsing Cataclysmic Variable. ABBOTT, T.M.C., SHAFTER, A.W.,
WOOD, J.H., TOMANEY, A.B., and HASWELL, C.A
The Historical Discovery and Recent Confirmation of a New Cataclysmic Variable in
Corvus. LEVY, D.H., HOWELL, S.B., KREIDL, T.J., SKIFF, B.A., and TOMBAUGH, C.W
Theoretical Statistics of Zero-Age Cataclysmic Variables (abstract). POLITANO, M.J 375
CATALOGS:
Accurate Positions for Objects in "The Second Byurakan Spectral Sky Survey [III]".
SIMPSON, C. E
Contemporary Optical Spectral Classification of the OB Stars: A Digital Atlas.  WALBORN, N.R. and FITZPATRICK, E.L
Line Identification Studies Using Traditional Techniques and Wavelength Coincidence
Statistics COWLEY, C. R. and ADELMAN, S. J
CELESTIAL MECHANICS:
Comets, Asteroids, and Their Orbits: Central Issues in the Astronomy of Two-Hundred
Years Ago (abstract) MARSDEN,B.G
CEPHEID VARIABLES: See VARIABLE STARS
CHEMICAL COMPOSITION: See ABUNDANCES
CIRCUMSTELLAR MATTER:
New Optical Features in L1551 and HH30. GRAHAM, J.A. and HEYER, M.M
The Optical Form of the Bipolar Preplanetary Nebula IRAS 09371+1212. MORRIS, M. and
REIPURTH, B
CLUSTERS OF GALAXIES: See GALAXIES
CLUSTERS (OF STARS):
General:
An Optical Investigation of Powerful Far-Infrared Galaxies (abstract). ARMUS,L 492
Spectral Synthesis Aided by the H-R Diagram: The Open Cluster M 11. SANTOS
JR., J.F.C., BICA, E., and DOTTORI, H
Associations: See ASSOCIATIONS
Globular:
The Calcium Abundances in NGC 6584, NGC 6864, and NGC 6981. RODGERS,A.W. and
HARDING,P235
Globular Clusters: The Heart of Shapley's Universe (abstract). WELTHER, B.L1337
NGC 3377. CCD Photometry of Globular Clusters in HARRIS, W.E
NGC 5170. The Globular-Cluster System of the Edge-On Sb Galaxy FISCHER,P.,
HESSER, J.E., HARRIS, H.C., and BOTHUN, G.D.
A Search for Novae in M 31 Globular Clusters. CIARDULLO,R., TAMBLYN,P., and
PHILLIPS, A.C1113
Open:
Activity, Metallicity, Helium, and the Hyades Anomaly. DOBSON, A.K
New Large Proper-Motion Stars in the Direction of the Alpha Persei Cluster.
PROSSER, C.F. 96 Photometry of HD 50064: A Be Supergiant Star with a P Cygni Profile at H Alpha.
HALBEDEL.E.M
Individual:
CCD Photometry of Cluster 1 of Fornax. DEMERS, S., KUNKEL, W.E., and GRONDIN, L 632
NGC 2353. The Moderately Young Open Cluster FITZGERALD, M.P., HARRIS, G.L.H.,
and REED,B.C
NGC 6716. The Open Cluster GRICE, N.A. and DAWSON, D.W

COMETS:
On the Number Density of Interstellar Comets as a Constraint on the Formation Rate of
Planetary Systems. STERN,S.A
COSMOLOGY:
Comment on the Discordant Redshift Pair VV 76 (NGC 4496A,B). ARP,H
Imaging of the NGC 5296/7 System. SHARP, N.A
CURVE OF GROWTH:
DATA-HANDLING TECHNIQUES:
Another Systematic Effect in the Determination of Stellar Abundances. LESTER, J.B1039
Automated Spectral Line Identification. GULLIVER, A.F. and STADEL, J.G
The Beijing Astronomical Observatory CCD Light-Curve Survey System. WEI,MZ.,
CHEN, JS., and JIANG, ZJ
Camera Artifacts in IUE Low-Dispersion Spectra. CRENSHAW, D.M., BRUEGMAN, D.W., and
NORMAN, D. J
A Comment on Image Detection and the Definition of Limiting Magnitude. HARRIS, W.E 949
Cross Talk in 1872 Reticon Diode Arrays. WALKER, G.A.H., JOHNSON, R., RICHARDSON, D.,
CAMPBELL, B., IRWIN, A.W., and YANG, S
On the Growth-Curve Method for Calibrating Stellar Photometry with CCDs. STETSON, P.B 932
Optimal Extraction of Cross-Dispersed Spectra. MUKAI,K
Rotation of FK Comae. RUCINSKI, S.M
Signal-to-Noise Ratios in IUE SWP-LO Spectra of Chromospheric Emission-Line Sources.
AYRES, T. R
Spectral Synthesis Aided by the H-R Diagram: The Open Cluster M 11. SANTOS
JR., U.F.C., BICA, E., and DOTTORI, H
Stellar Photometry with the Wide Field/Planetary Camera of the Hubble Space
Telescope HOLTZMAN, J.A
A Test of Selected Comparison Line-Fitting Techniques. GULLIVER, A.F. and HILL.G
Unexpected Effects of a Trap in CCD Echelle Spectra of B-Type Stars. MDRRISON, N.D.
and ZIMBA, J.R. 682
A Variation of the Cross-Correlation Technique. FURENLID, I. and FURENLID, L
Workstation-Based Preprocessing of IRAS Sky-Flux Images. DOMIK,G., BRUGEL,E.W.,
STENCEL, R.E., PANG, J., and VASUDEVAN, S
DISSERTATION ABSTRACTS:
Absolute Wind Measurements in the Lower Thermosphere of Venus Using Infrared
Heterodyne Spectroscopy (abstract). GOLDSTEIN, J.J
Approximate Calculation of Orbits in Dynamical Systems (abstract). SEIMENIS, J 231
Astero-Archaeology: Reading the Galactic History Recorded in the White-Dwarf Stars
(abstract). WOOD,M.A
The Evolution of Comets and the Detectability of Extrasolar Dort Clouds (abstract).
STERN, S. A
Fundamental Properties and Mass Loss in Hot, Near-Main-Sequence Stars (abstract).
GRIGSBY, J.A
The Nature of Emission-Line Profile Variability and the Structure of the
Line-Emitting Regions in Active Galactic Nuclei (abstract). KDRISTA,K.T1351
Nitrogen and Sulfur in Irregular Galaxies (abstract). GARNETT, D.R
An Optical Investigation of Powerful Far-Infrared Galaxies (abstract). ARMUS,L
Rapid Mass Transfer in Binary Systems (abstract). HJELLMING.M.S
A Study of the Structure and Kinematics of the Narrow-Line Region in Seyfert Galaxies
(abstract) VEILLEUX.S
Theoretical Statistics of Zero-Age Cataclysmic Variables (abstract). POLITANO, M.J 375 EARTH:
Refraction Near the Horizon, SCHAEFER, B.E. and LILLER, W
ECLIPSING BINARIES: See BINARY STARS
ERRATA:
"A New Velocity Curve of the RR Lyrae Star TU Ursae Majoris: Evidence for Duplicity"
[Pub. A.S.P., 102, 148 (1990)]. SAHA, A. and WHITE, R.E
"Contemporary Optical Spectral Classification of the OB Stars: A Digital Atlas" [Pub.
A.S.P., 102, 379 (1990)]. WALBORN, N.R. and FITZPATRICK, E.L
"Coordinates and RI Photometry of Large Magellanic Cloud Carbon Stars" [Pub. A.S.P.,
102, 789 (1990)]. COSTA,E
"Radial and Expansion Velocities of Compact Planetary Nebulae" [Pub. A.S.P., 101, 873
(1989)] GUSSIE,G.T. and TAYLOR,A.R
"Spatial Thinking and the Astronomical Endeavor: Theoretical Issues and Pedagogical
Implementations" (abstract) [Pub. A.S.P. 101, 1061 (1989)]. HILL JR., L.C
"The Period of V444 Cygni and Its Rate of Change" [Pub. A.S.P., 102, 749 (1990)].
UNDERHILL, A.B., GRIEVE, G.R., and LOUTH, H
EXTINCTION:
Galaxies Behind the Large Magellanic Cloud. GURWELL, M. and HODGE, P
GALAXIES:
General:
Accurate Positions for Objects in "The Second Byurakan Spectral Sky Survey [III]".
SIMPSON, C.E
Are Protogalaxies Hidden by Dust?. VAN DEN BERGH, S

	Balmer Decrements in Seyfert 2 Galaxies. BINETTE, L., CALVET, N., CANTO, J., and
	RAGA, A.C
	CO Observations of Galaxies 1985-1989. VERTER,F
	Distant QSOs Behind Foreground Clusters of Galaxies. HUTCHINGS.J.B
	The Frequency of SN Ia in Galaxies of Differing Hubble Type. VAN DEN BERGH, S
	Galaxy Building. LARSON,R.B
	On the Sulfur and Nitrogen Abundances in the Nucleus of Seyfert 2 and Liner
	Galaxies STORCHI-BERGMANN, T. and PASTORIZA, M.G
	Recent Starbirth and Starburst Activity in Nearby Galaxies (abstract).
	WALLER, W.H
	Spectroscopy of Radio Sources from the Parkes 2700 MHz Survey. THOMPSON, D. J.,
	DJORGOVSKI.S. and DE CARVALHO.R. 1235
	Spectroscopy of Radio Sources from the Third Bologna Survey. DJORGDVSKI,S.,
	THOMPSON, D.J., VIGOTTI, M., and GRUEFF, G
	VULCAN: A Low-Resolution Spectrophotometer for Measuring the Integrated Colors of
	Galaxies. RAKOS, K.D., WEISS, W.W., MULLER, S., PRESSBERGER, R., WACHTLER, P.,
	SCHOMBERT, J.M., and KREIDL, T.J
	Clusters of:
	VLA and CCD Observations of the Radio Source Group GB2 1401+350. MACHALSKI, J. and
	CONDON, J. J
	Local Group:
	The H II Regions of IC 10. HDDGE,P. and LEE,M.G
	The H II Regions of IC 1613. HODGE, P., LEE, M.G., and GURWELL, M
	Magellanic Clouds: Coordinates and RI Photometry of Large Magellanic Cloud Carbon Stars. COSTA, E 789
	Galaxies Behind the Large Magellanic Cloud. GURWELL, M. and HODGE, P
	Morphology:
	NGC 3239. The Structure of the Irregular Galaxy, KRIENKE, K. and HODGE, P 4
	The Peculiar, Off-Centered Ring of the Sa Galaxy NGC 3611. SCHWEIZER, F. and
	SEITZER,P. 619
	Redshift:
	Spectroscopy of Quasar Candidates from the University of Michigan Low-Dispersion
	Survey THOMPSON, D.J. and DJORGOVSKI, S
	Individual:
	CCD Photometry of Cluster 1 of Fornax. DEMERS,S., KUNKEL,W.E., and GRONDIN,L 633
	Comment on the Discordant Redshift Pair VV 76 (NGC 4496A,B). ARP,H
	DDO 53. H-Alpha Mapping of STROBEL, N.V., HODGE, P., and KENNICUTT UR., R.C124
	M 31. A Search for Novae in Globular Clusters. CIARDULLO,R., TAMBLYN,P., and
	PHILLIPS, A.C
	HUMPHREYS,R.M., SITKO,M.L., and MANLEY,T
	M 83. CCD Photometric UBVR Sequences for and NGC 5128. ZICKGRAF.FJ.,
	HUMPHREYS, R.M., GRAHAM, J.A., and PHILLIPS, A
	NGC 2403. CCD Photometric UBVR Sequences for and M 81. ZICKGRAF.FJ
	HUMPHREYS,R.M., SITKO,M.L., and MANLEY,T92
	NGC 2903. UBVR CCD Photometry of the Spiral Galaxy HODGE, P., JADERLUNG, E.,
	and MEAKES, M
	NGC 3067. Is the Quasar 3C 232 Embedded in the Neutral Hydrogen Tail of the Galaxy
	?. PESCH,P., WESTPFAHL UR.,D.J., and SIMKIN,S.M
	NGC 3377. CCD Photometry of Globular Clusters in HARRIS, W.E
	NGC 5128. CCD Photometric UBVR Sequences for M 83 and ZICKGRAF, FJ.,
	HUMPHREYS,R.M., GRAHAM,J.A., and PHILLIPS,A
	NGC 5170. The Globular-Cluster System of the Edge-On Sb Galaxy FISCHER,P.,
	HESSER, J.E., HARRIS, H.C., and BOTHUN, G.D
	NGC 6835. CCD Surface Photometry of the Edge-On Galaxy SCHRODER, M.F.S.,
	PASTORIZA, M.G., and KEPLER, S.O
	PG 1553+11: A Bright Optically Selected BL Lacertae Object. FALOMO,R. and TREVES,A1120
GEN	ERAL NOTES:
	Telescopic Limiting Magnitudes. SCHAEFER, B.E
HIS	TORY OF ASTRONOMY:
	David Gill: The Education of an Astronomer (abstract). TENN, J.S
	The Astronomy and Astrology of Isidore of Seville (abstract). SALVADOR, F. and
	APARICIO, A
	Comets, Asteroids, and Their Orbits: Central Issues in the Astronomy of Two-Hundred
	Years Ago (abstract). MARSDEN,B.G1336
	The Discovery and Early Photographs of the Horsehead Nebula (abstract). WALDEE, S.R.
	and HAZEN,M.L
	Eddington's Stellar Models (abstract). EISBERG,J
	Globular Clusters: The Heart of Shapley's Universe (abstract). WELTHER, B.L
	Publication Characteristics of Members of the American Astronomical Society, ABT, H.A116
	Resource Material for the Teaching of Ancient Astronomy (abstract). MILONE, E.F. and KELLEY, D.H
	NELLET . W. H

H-R DIAGRAM:
HYDRODYNAMICS:
IAU Astronomical Radiation Source Designation System. EDITOR,PASP
General:
Absolute Wind Measurements in the Lower Thermosphere of Venus Using Infrared
Heterodyne Spectroscopy (abstract). GOLDSTEIN,J.J
Atmospheric Transmission in the Far-Infrared at the South Pole and Astronomical Applications. TOWNES,C.H. and MELNICK,G
Photometry: Coordinates and RI Photometry of Large Magellanic Cloud Carbon Stars. COSTA, E 789 IRAS Observations of Delta Scuti Variables: Implications for Main-Sequence Mass
Loss and an IR Period-Luminosity Relation. KING, J.R
An Optical Investigation of Powerful Far-Infrared Galaxies (abstract). ARMUS,L 492
Two Herbig-Haro Objects Discovered by Narrow-Band CCD Imagery. DGURA,K
Spectra:
Capabilities of the AFGL Mosaic Array SpectrometerTen-Micron Spectra of Bright Infrared Stars. LEVAN, P.D
The Cerro Tololo Inter-American Observatory Infrared Spectrometer. DEPOY,D.L., GREGORY,B., ELIAS,J., MONTANE,A., PEREZ,G., and SMITH,R.M
INSTRUMENTATION: General:
MILLIPOL, a Millimeter/Submillimeter Wavelength Polarimeter: Instrument, Operation, and Calibration. CLEMENS, D.P., LEACH, R.W., BARVAINIS, R., and
KANE,B.D
Data-handling:
Cross Talk in 1872 Reticon Diode Arrays. WALKER, G.A.H., JOHNSON, R., RICHARDSON, D., CAMPBELL, B., IRWIN, A.W., and YANG, S
Unexpected Effects of a Trap in CCD Echelle Spectra of B-Type Stars. MORRISON, N.D.
and ZIMBA, J.R
Image Tubes: CCD Techniques:
A CCD Camera for the Echelle Spectrograph at Catania Astrophysical Observatory.  BONANNO,G. and DI BENEDETTO,R835
A Laboratory Measurement of CCD Photometric and Dimensional Stability.  BUFFINGTON, A., HUDSON, H.S. and BOOTH, C.H
Optimal Extraction of Cross-Dispersed Spectra. MUKAI,K
Capabilities of the AFGL Mosaic Array Spectrometer Ten-Micron Spectra of Bright
Infrared Stars. LEVAN,P.D
Photographic: Photometry:
A Double-Beam Photoelectric Seeing Monitor. BISHT, R.S., IYENGAR, K.V.K., and
TANDON, S.N
GELLER, M. R
Radio:
Space: Stellar Photometry with the Wide Field/Planetary Camera of the Hubble Space
Telescope HOLTZMAN, J.A
Spectroscopy: The Cerro Tololo Inter-American Observatory Infrared Spectrometer. DEPOY,D.L.,
GREGORY,B., ELIAS,J., MONTANE,A., PEREZ,G., and SMITH,R.M
Locating Stars with a Multiple-Object Spectrograph: Argus. LUTZ, T.E., INGERSON, T., SCHUMACHER, G., and SMITH, D
The Multi-Telescope Telescope: A Cost-Effective Approach to Fiber-Fed Spectroscopy. BAGNUOLO JR., W.G., FURENLID, I.K., GIES, D.R., BARRY, D.J.,
RUSSELL, W.H., and DORSEY, J.F
Passive Interspectroscopy. BAGNUOLO JR., W.G. and KAMPER, K.W
SCHOMBERT, J.M., and KREIDL, T.J
INTERPLANETARY MEDIUM: See SOLAR SYSTEM INTERSTELLAR MATTER:
CO Observations of Galaxies 1985-1989. VERTER,F
The Mg II h and k Interstellar Lines in the Spectrum of the G-Type Giant HD 156854.  GURZADYAN,G.A., CHOLAKYAN,V.G., KONDO,Y., TERZIAN,Y., and SHORE,S.N

INTERSTELLAR REDDENING:  Balmer Decrements in Seyfert 2 Galaxies. BINETTE,L., CALVET,N., CANTO,J., and RAGA,A.C
LIGHT POLLUTION: See OBSERVATORY SITES LUMINOSITY FUNCTION: MAGELLANIC CLOUDS: See GALAXIES MAGNETIC FIELDS: MAGNITUDES: See STARS: Luminosities
LUMINOSITY FUNCTION: MAGELLANIC CLOUDS: See GALAXIES MAGNETIC FIELDS: MAGNITUDES: See STARS: Luminosities
MAGNETIC FIELDS: MAGNITUDES: See STARS: Luminosities
MASS LOSS:
On the Possibility of Outflows from Very Low-Mass Companions. WOLK, S.K. and BECK, S.C 745 The Period of V444 Cygni and Its Rate of Change. UNDERHILL, A.B., GRIEVE, G.R., and
LOUTH,H
METEORS: MILKY WAY SYSTEM:
General:
Disk: Photometry of the Rubin Losee Blue Stars at the Anticenter. PHILIP, A.G.D.,
CHROMEY, F.R., and DUBOIS, P
Evolution: Transformations Between Stromgren and UBV Colors for Early-Type Stars. TURNER, D.G 1331
Halo: The Historical Discovery and Recent Confirmation of a New Cataclysmic Variable in
Corvus. LEVY, D.H., HOWELL, S.B., KREIDL, T.J., SKIFF, B.A., and TOMBAUGH, C.W1321
MINOR PLANETS:
MISCELLANEOUS: Accurate Positions for Objects in "The Second Byurakan Spectral Sky Survey [III]".
SIMPSON, C.E
(abstract). WOOD,M.A
CO Observations of Galaxies 1985-1989. VERTER, F
KELLEY, D.H
MOON: MULTIPLE STARS; MULTIPLE SYSTEMS: See BINARY STARS NEBULAE: See also Planetary Nebulae
The Chemical Compositions of Gaseous Nebulae. ALLER, L.H
General: Emission-Line and Continuum Fluxes from Narrow- and Broad-Band Imagery. WALLER, W.H 1217 The H II Regions of IC 10. HODGE, P. and LEE, M.G
The H II Regions of IC 1613. HDDGE,P., LEE,M.G., and GURWELL,M
Reflection: Supernovae Remnants:
Individual:
HH30. New Optical Features in L1551 and GRAHAM, J.A. and HEYER, M.M
WALDEE, S.R. and HAZEN, M.L
NEW BOOKS RECEIVED:
A Search for Novae in M 31 Globular Clusters. CIARDULLO,R., TAMBLYN,P., and
PHILLIPS, A.C
OBSERVATORIES: Astrometric Positions of Jupiter VI, Jupiter VII, and Minor Planet (2153) Akiyama
from Table Mountain Observatory with Remarks on Decimalization in Astronomy.
MULHOLLAND, J.D
Anderson Mesa, Arizona, as a Site for an Optical Array. TSAY, WS., BAGNUOLO JR., W.G., MCALISTER, H.A., WHITE, N.M., and FORBES, F.F

Atmospheric Transmission in the Far-Infrared at the South Pole and Astronomical	
Applications. TOWNES, C.H. and MELNICK, G	
KRISCIUNAS,K	
LOCKWOOD.G.W., FLOYD.R.D., and THOMPSON.D.T4	81
The Spectrum of the Kitt Peak Night Sky. MASSEY, P., GRONWALL, C., and PILACHOWSKI, C.A 10	46
OBSERVING TECHNIQUES: The Beijing Astronomical Observatory CCD Light-Curve Survey System. WEI, MZ.,	
CHEN, JS., and JIANG, ZJ	98
Ground-Based CCD Observations of Two OB Associations of M 31 Obtained Through Replicas of Two Wide Field/Planetary Camera Filters. HUNTER,D.A. and WINKELMAN,S 8	
MILLIPOL, a Millimeter/Submillimeter Wavelength Polarimeter: Instrument, Operation,	- 4
and Calibration. CLEMENS, D.P., LEACH, R.W., BARVAINIS, R., and KANE, B.D	
Telescopic Limiting Magnitudes. SCHAEFER,B.E	
OCCULTATIONS:	
OPTICS:	
PARALLAXES: PECULIAR STARS: See STARS	
PHOTOGRAPHY:	
PHOTOMETRY (GENERAL):	
CCD Time-Resolved Photometry of Faint Cataclysmic Variables. III. HOWELL, S.B.,	EO
SZKODY, P., KREIDL, T.J., MASON, K.O., and PUCHNAREWICZ, E.M	
Integrated Photoelectric Photometry of Nine Planetary Nebulae. COPETTI, M.V.F	
A Laboratory Measurement of CCD Photometric and Dimensional Stability. BUFFINGTON, A.,	
HUDSON, H. S., and BOOTH, C. H	88
Large and Kinematically Unbiased Samples of G- and K-Type Stars. V. Evolved Stars in the Selected Areas at +15 Declination. EGGEN.O.J	42
On the Growth-Curve Method for Calibrating Stellar Photometry with CCDs. STETSON, P.B 9	
Photoelectric Observations of Moderate to Rapidly Rotating Pre-Main-Sequence Stars in	
the Orion Nebula Cluster. WALKER, M.F	26
DOINIDIS, S. P. and BEERS, T.C	92
Photometry of the Rubin Losee Blue Stars at the Anticenter. PHILIP, A.G.D.,	-
CHROMEY, F.R., and DUBOIS, P	54
Stellar Photometry with the Wide Field/Planetary Camera of the Hubble Space	
Telescope. HOLTZMAN, J.A	
VRI Photometric Properties of M-Type Giants. THE, P.S., THOMAS, D., CHRISTENSEN, C.G.,	٠.
and WESTERLUND, B.E	
Washington CCD Standard Fields. GEISLER, D	44
42 Persei. The Ellipsoidal Variable: Observations and Model. MARTIN, B.E.,	
HUBE, D. P., and LYDER, D. A	53
89 Herculis and HD 161796 in 1988. FERNIE, J.D	42
BD +24 676: An Intermediate-Mass, Pre-Main-Sequence Star. WALTER, F.M., SKINNER, S.L., and BOYD, W.T	E 4
CCD Photometry of Cluster 1 of Fornax. DEMERS,S., KUNKEL,W.E., and GRONDIN,L	
Cousins VRI Standard Stars in the M 67 Dipper Asterism. JONER, M.D. and TAYLOR, B.J10	04
HD 127208. HD 43246 and: Two Unusual F-G + B Binary Systems. DEMPSEY,R.C.,	
PARSONS, S.B., BOPP, B.W., and FEKEL, F.C	12
MARTIN, B.E., HUBE, D.P., and LYDER, D.A	75
HD 43246 and HD 127208: Two linusual F-G + R Rinary Systems DEMPSEV P C	
PARSONS, S.B., BOPP, B.W., and FEKEL, F.C	12
HD 50064. Photometry of: A Be Supergiant Star with a P Cygni Profile at H Alpha.  HALBEDEL, E.M	00
Large and Kinematically Unbiased Samples of G- and K-Type Stars. VI. Evolved Stars	99
in the Moore-Paddock-Wayman Sample. EGGEN, O.J	07
M 81. CCD Photometric UBVR Sequences for NGC 2403 and ZICKGRAF, FJ.,	
HUMPHREYS,R.M., SITKO,M.L., and MANLEY,T	25
	20
The Moderately Young Open Cluster NGC 2353. FITZGERALD, M.P., HARRIS, G.L.H., and	
REED, B. C	65
NGC 2403. CCD Photometric UBVR Sequences for and M 81. ZICKGRAF, FJ.,	0.00
HUMPHREYS, R.M., SITKO, M.L., and MANLEY, T	25
MEAKES, M	63
NGC 3239. The Structure of the Irregular Galaxy, KRIENKE, K. and HODGE, P	41
NGC 3377. CCD Photometry of Globular Clusters in HARRIS.W.E	166

NGC 5128. CCD Photometric UBVR Sequences for M 83 and ZICKGRAF, FJ.,
HUMPHREYS,R.M., GRAHAM,J.A., and PHILLIPS,A
NGC 6835. CCD Surface Photometry of the Edge-On Galaxy SCHRODER, M.F.S.,
PASTORIZA,M.G., and KEPLER,S.O
Optical Variability of the Low-Mass, X-Ray Binary 1556-605. SCHMIDTKE, P.C
R Coronae Borealis in 1989. FERNIE, J.D
Remarkable Developments in Delta Coronae Borealis. FERNIE, J.D
SA 106 1024. The Variable Star LANDOLT, A.U
MAZA, J., RUIZ, M.T., CARNEY, B.W., and GRAHAM, J.A
SN 1987A in the Large Magellanic Cloud. IV. Photometry from the Spectrophotometry.
HAMUY, M., SUNTZEFF, N.B., BRAVO, J., and PHILLIPS, M.M
UBVRI Passbands. BESSELL, M.S
V441 Herculis and V814 Herculis in 1989. FERNIE, J.D
V567 Ophiuchi. A Photometric and Spectroscopic Study of POWELL, J.M., JONER, M.D., and MCNAMARA, D.H
V728 Herculis: An Active W Ursae Majoris System of F Spectral Type. SAMEC,R.G 994
V814 Herculis. V441 Herculis and in 1989. FERNIE, J.D
Y Ophiuchi Revisited. FERNIE, J.D
PLANETARY NEBULAE: The Chemical Compositions of Gaseous Nebulae. ALLER, L.H
Expansion Analyses on Low-Excitation Planetary Nebulae with Stellar Images. TAMURA, S.
and SHIBATA,K.M
Integrated Photoelectric Photometry of Nine Planetary Nebulae. COPETTI, M.V.F
The Optical Form of the Bipolar Preplanetary Nebula IRAS 09371+1212. MORRIS, M. and
REIPURTH,B
PLANETS: See also SATELLITES Absolute Wind Measurements in the Lower Thermosphere of Venus Using Infrared
Heterodyne Spectroscopy (abstract). GOLDSTEIN,J.J
The Pluto-Charon System as Revealed During the Mutual Events (abstract).
MARCIALIS,R.L
MILLIPOL, a Millimeter/Submillimeter Wavelength Polarimeter: Instrument, Operation,
and Calibration. CLEMENS, D.P., LEACH, R.W., BARVAINIS, R., and KANE, B.D1064
Multicolor Polarimetry of Selected Be Stars: 1986-89. MCDAVID,D
TAPIA,S
POPULATION TYPES: See GALAXIES; MILKY WAY SYSTEM; STARS
PROPER MOTIONS:  New Large Proper-Motion Stars in the Direction of the Alpha Persei Cluster.
PROSSER, C.F. 96
PULSARS:
Pulsars as Spiral Arm Tracers. MORGAN, S
Accurate Positions for Objects in "The Second Byurakan Spectral Sky Survey [III]".
SIMPSON.C.E
Broad [Ne III] Line Emission and Intermediate-Density Gas Around QSO Nuclei. ZHENG.W., BURBIDGE.E.M., and SMITH,H.E
Distant QSOs Behind Foreground Clusters of Galaxies HUTCHINGS, J.B. 431
High-Resolution Optical Imaging of Three QSOs. HUTCHINGS, J.B. and MCCLURE, R.D
Is the Quasar 3C 232 Embedded in the Neutral Hydrogen Tail of the Galaxy NGC 3067? PESCH,P., WESTPFAHL JR.,D.J., and SIMKIN,S.M
N2841-UB3: A QSO with Unusually Strong Optical Fe II Emission, SULENTIC.J.W
ZHENG, W., and ARP, H.C1275
Spectroscopy of Quasar Candidates from the University of Michigan Low-Dispersion Survey. THOMPSON,D.J. and DJORGOVSKI,S
Spectroscopy of Radio Sources from the Parkes 2700 MHz Survey. THOMPSON,D.J.,
DJORGOVSKI,S., and DE CARVALHO,R1235
RADIAL VELOCITIES:  AI Canum Venaticorum. The Delta Scuti Variable: Short-Period Variables,
Spectroscopic Binaries, and The Bright Star Catalogue. KING, J.R. and LIU, T 328
HD 43246 and HD 127208: Two Unusual F-G + B Binary Systems. DEMPSEY, R.C.,
PARSONS, S.B., BOPP, B.W., and FEKEL, F.C
Is the Quasar 3C 232 Embedded in the Neutral Hydrogen Tail of the Galaxy NGC 3067? PESCH,P., WESTPFAHL JR.,D.J., and SIMKIN,S.M
A New Velocity Curve of the RR Lyrae Star TU Ursae Majoris: Evidence for Duplicity.
SAHA, A. and WHITE, R.E
Orbital Elements and Optical Spectroscopy of the Enigmatic cF + B Binary System HD 207739 GRIFFIN.R.F. PARSONS.S.B. DEMPSEY.R. and BOPP.B.W

A Photometric and Spectroscopic Study of V567 Ophiuchi. POWELL, J.M., JONER, M.D., and
MCNAMARA,D.H
RADAR ASTRONOMY
RADIO ASTRONOMY: Radio Continuum from FU Orionis Stars. RODRIGUEZ, L.F., HARTMANN, L.W., and CHAVIRA, E 1413
Spectroscopy of Radio Sources from the Parkes 2700 MHz Survey. THOMPSON, D.J.,
DUDRGOVSKI,S., and DE CARVALHO,R
Spectroscopy of Radio Sources from the Third Bologna Survey. DJORGOVSKI, S.,
THOMPSON,D.J., VIGOTTI,M., and GRUEFF,G
CONDON, U. J
REDDENING: See INTERSTELLAR REDDENING
REDSHIFTS: See GALAXIES  Comment on the Discordant Redshift Pair VV 76 (NGC 4496A,B). ARP,H
Spectroscopy of Radio Sources from the Third Bologna Survey. DJORGOVSKI,S.,
THOMPSON, D.J., VIGOTTI, M., and GRUEFF, G
REVIEW PAPERS: The Chemical Compositions of Gaseous Nebulae. ALLER, L.H
Contemporary Optical Spectral Classification of the OB Stars: A Digital Atlas.
WALBORN, N. R. and FITZPATRICK, E. L
The Evolution of Stars of Medium Mass. CHIOSI,C
Galaxy Building. LARSON, R.B
SEEING: See also OBSERVATORY SITES
A Double-Beam Photoelectric Seeing Monitor. BISHT, R.S., IYENGAR, K.V.K., and
TANDON, S. N
Mylar as an Optical Window. THOMPSON, L.A
On the Number Density of Interstellar Comets as a Constraint on the Formation Rate of
Planetary Systems. STERN,S.A
The Pluto-Charon System as Revealed During the Mutual Events (abstract).  MARCIALIS,R.L
SPACE OBSERVATIONS:
Ground-Based CCD Observations of Two OB Associations of M 31 Obtained Through
Replicas of Two Wide Field/Planetary Camera Filters. HUNTER, D.A. and WINKELMAN, S 854
SPECTRAL CLASSIFICATION: SPECTROPHOTOMETRY:
Atmospheric Parameters of the White-Dwarf Companion to HD 74389. LIEBERT, J.,
BERGERON,P., and SAFFER,R.A
A Comparison of KPNO CCD and Coadded DAO Photographic Spectroscopic Data.  ADELMAN,S.J. and PHILIP,A.G.D
Optimal Extraction of Cross-Dispersed Spectra. MUKAI,K
The Spectrum of the Kitt Peak Night Sky. MASSEY, P., GRONWALL, C., and PILACHOWSKI, C.A 1046
SPECTROSCOPIC BINARIES: See BINARY STARS SPECTROSCOPY:
Another Systematic Effect in the Determination of Stellar Abundances. LESTER, J.B 1039
Automated Spectral Line Identification. GULLIVER, A.F. and STADEL, J.G
BD +24 676: An Intermediate-Mass, Pre-Main-Sequence Star. WALTER, F.M., SKINNER, S.L.,
and BOYD, W.T
BONANNO, G. and DI BENEDETTO, R
HD 128220. The Spectroscopic Orbit and Evolution of, A System Containing an O
Subdwarf. HOWARTH, I.D. and HEBER, U
BAGNUOLO JR W.G. FURENITO I K. GIES D.R. BARRY D.J. RUSSELL W.H. and
DDRSEY, J. F
N2841-UB3: A QSO with Unusually Strong Optical Fe II Emission. SULENTIC, J.W.,
ZHENG, W., and ARP, H.C
Spectral Synthesis Aided by the H-R Diagram: The Open Cluster M 11. SANTOS
JR., J.F.C., BICA, E., and DOTTORI, H
A Test of Selected Comparison Line-Fitting Techniques. GULLIVER, A.F. and HILL, G1200 STARS (BY CLASSIFICATION):
A-Type:
Ap-Type:
HD 192913. Spectrum Variability of the Silicon Ap Star RYABCHIKOVA, T.A.,
DAVIDOVA, E.S., and ADELMAN, S.J
B-Type:
Contemporary Optical Spectral Classification of the OB Stars: A Digital Atlas.
WALBORN, N.R. and FITZPATRICK, E.L

Hydrogen-Poor:	
K-Type:	
K- and M-Type Dwarf Stars Within 25 Parsecs of the Sun. I. The Age-Chromospheric Activity Relation from H-Alpha Equivalent Widths. EGGEN.O.J	166
Large and Kinematically Unbiased Samples of G- and K-Type Stars. V. Evolved Stars	
in the Selected Areas at +15 Declination. EGGEN, O. J	242
Large and Kinematically Unbiased Samples of G- and K-Type Stars. VI. Evolved	
Stars in the Moore-Paddock-Wayman Sample. EGGEN, D. J	507
Late-Type:	
Magnetic:	
Metallic-Line:	
Metal-poor:	
HR 4049. The Sulfur Abundance in (HD 89353). TAKADA-HIDAI,M	139
Photoelectric UBV Photometry of Northern Stars from the HK Objective-Prism Survey.	
DOINIDIS, S.P. and BEERS, T.C	1392
M-Type:	
HH55 and Its Energy Source. HEYER, M.H. and GRAHAM, J.A	117
K- and M-Type Dwarf Stars Within 25 Parsecs of the Sun. I. The Age-Chromospheric	
Activity Relation from H-Alpha Equivalent Widths. EGGEN, 0. J	166
CAILLAULT, JP	989
VRI Photometric Properties of M-Type Giants. THE, P.S., THOMAS, D.,	
CHRISTENSEN, C.G., and WESTERLUND, B.E	565
Neutron:	
N-Type:	
0-Type:	
Contemporary Optical Spectral Classification of the OB Stars: A Digital Atlas.  WALBORN,N.R. and FITZPATRICK,E.L	379

Red Spectra of the Brightest Stars in Cygnus OB1: Possible Detection of Two New

Interstellar Bands. TORRES-DODGEN, A.V.....

Peculiar: Red: Shell:

S-Type:	
Lithium Abundances in SC Stars. KIPPER, T. and WALLERSTEIN, G	4
Subdwarf:	
Subgiant:	
Supergiant:	_
HR 4049. The Sulfur Abundance in (HD 89353). TAKADA-HIDAI, M	9
Massa's Star, HD 93840: A New Extreme BN Supergiant. WALBORN, N.R.,	_
FITZPATRICK, E.L., and NICHOLS-BOHLIN, J	3
Role of Nonthermal Velocity Fields in Determining the H-Alpha Widths in Supergiant	_
Chromospheres. MALLIK,S.V114	8
Symbiotic Objects:	_
Observations of the Symbiotic Star AS 296. GUTIERREZ-MORENO, A. and MORENO, H	7
Variable: See VARIABLE STARS	
White Dwarf:	
Astero-Archaeology: Reading the Galactic History Recorded in the White-Dwarf Stars	
(abstract). WOOD.M.A95	14
Atmospheric Parameters of the White-Dwarf Companion to HD 74389. LIEBERT, J.,	
BERGERON, P., and SAFFER, R.A	0
On a Possible White-Dwarf Companion to HD 74389. SANDULEAK, N. and PESCH, P	0
Theoretical Statistics of Zero-Age Cataclysmic Variables (abstract). POLITANO, M.J 37	9
Wolf-Rayet:	
The Period of V444 Cygni and Its Rate of Change. UNDERHILL, A.B., GRIEVE, G.R., and LOUTH, H	
	9
Young: STARS (BY PROPERTIES):	
Abundances See ABUNDANCES	
Atmospheres:	
Role of Nonthermal Velocity Fields in Determining the H-Alpha Widths in Supergiant	
Chromospheres. MALLIK, S.V	18
Diameters:	
Evolution:	
Eddington's Stellar Models (abstract). EISBERG, J	36
The Evolution of Stars of Medium Mass. CHIOSI,C	
New Optical Features in L1551 and HH30. GRAHAM, J.A. and HEYER, M.M	
On the Number Density of Interstellar Comets as a Constraint on the Formation Rate	
of Planetary Systems. STERN,S.A	3
Recent Starbirth and Starburst Activity in Nearby Galaxies (abstract).	
WALLER, W.H	25
Two Herbig-Haro Objects Discovered by Narrow-Band CCD Imagery. OGURA, K	6
Luminosities:	
Masses:	
On the Possibility of Outflows from Very Low-Mass Companions. WOLK, S.K. and	
BECK, S.C	15
Motions:	
H-Function Evolution in Collisionless Self-Gravitating Systems. SOKER, N 63	39
Populations:	
Pulsation:	
Period Length and the Blazhko Effect in RR Lyrae Stars. GLORIA,K.A	38
Rotations:	
Photoelectric Observations of Moderate to Rapidly Rotating Pre-Main-Sequence Stars	
in the Orion Nebula Cluster. WALKER, M.F	
Rotation of FK Comae. RUCINSKI,S.M	)6
Spectra (General):	
Red Spectra of the Brightest Stars in Cygnus OB1: Possible Detection of Two New	
Interstellar Bands. TORRES-DODGEN, A.V	
Spectroscopy of Faint Halo Carbon Stars. GREEN, P. J. and MARGON, B	12
Ultraviolet Spectra of Field Horizontal-Branch A-Type Stars. II PHILIP, A.G.D.,	
HAYES,D.S., and ADELMAN,S.J64	19
Spectra (Individual):	
AS 296. Observations of the Symbiotic Star GUTIERREZ-MORENO, A. and MORENO, H 15	57
HD 207739. Orbital Elements and Optical Spectroscopy of the Enigmatic cF + B	
Binary System GRIFFIN,R.F., PARSONS,S.B., DEMPSEY,R., and BOPP,B.W	
HH55 and Its Energy Source. HEYER, M.H. and GRAHAM, J.A	11
SUN:	
SUPERNOVAE: See also NEBULAE	
The Frequency of SN Ia in Galaxies of Differing Hubble Type. VAN DEN BERGH.S	18
SN 1983K. The Light Curve of the Plateau Type II PHILLIPS, M.M., HAMUY, M.,	
MAZA, J., RUIZ, M.T., CARNEY, B.W., and GRAHAM, J.A	
SN 1984IAnother Type Ib Supernova. LEIBUNDGUT,B., PHILLIPS,M.M., and GRAHAM,J.A 89	18
SN 1987A in the Large Magellanic Cloud. IV. Photometry from the Spectrophotometry.	
HAMUY, M., SUNTZEFF, N.B., BRAVO, J., and PHILLIPS, M.M	
UBVAL CCD PROTOMETRY OF STARS NEAR SN 1987A. WALKER,A.K. and SUNIZEFF,N.B	3 1

THEORETICAL ASTROPHYSICS:	
H-Function Evolution in Collisionless Self-Gravitating Systems. SOKER, N	39
Role of Nonthermal Velocity Fields in Determining the H-Alpha Widths in Supergiant	
Chromospheres MALLIK,S.V	48
ULTRAVIOLET ASTRONOMY:	
Camera Artifacts in IUE Low-Dispersion Spectra. CRENSHAW,D.M., BRUEGMAN,D.W., and	
NORMAN, D. J.	63
Cepheid Companions? FM Aquilae, FN Aquilae, RX Aurigae, Y Lacertae, and RS Orionis.	
EVANS, N.R., SZABADOS, L., and UDALSKA, J	
Signal-to-Noise Ratios in IUE SWP-LO Spectra of Chromospheric Emission-Line Sources.	120
AYRES, T. R	120
VARIABLE STARS:	120
General:	
89 Herculis and HD 161796 in 1988. FERNIE, J.D	142
Accurate Positions for Variable and Suspected Variable Stars South of -67.	
LOPEZ, C.E. and GIRARD, T.M	18
The Beijing Astronomical Observatory CCD Light-Curve Survey System. WEI, MZ.,	
CHEN, JS., and JIANG, ZJ	598
CCD Time-Resolved Photometry of Faint Cataclysmic Variables. III HOWELL, S.B.,	
SZKODY, P., KREIDL, T.J., MASON, K.D., and PUCHNAREWICZ, E.M	758
HD 192913. Spectrum Variability of the Silicon Ap Star RYABCHIKOVA,T.A.,	
DAVIDOVA, E.S., and ADELMAN, S.J.	581
Radio Continuum from FU Orionis Stars. RODRIGUEZ, L.F., HARTMANN, L.W., and CHAVIRA, E	442
Remarkable Developments in Delta Coronae Borealis, FERNIE, J.D.	
Beta Cephei:	00
Cepheid:	
Cepheid Companions? FM Aquilae, FN Aquilae, RX Aurigae, Y Lacertae, and RS	
Orionis, EVANS, N.R., SZABADOS, L., and UDALSKA, J.	981
The Evolution of Stars of Medium Mass. CHIOSI, C	
The Orbit and Colors of the Cepheid S Muscae. EVANS, N.R	551
Transformations Between Stromgren and UBV Colors for Early-Type Stars. TURNER, D.G 13	
Two New Short-Period Cepheids. SCHMIDT, E.G. and GROSS, B.A	
Y Ophiuchi Revisited. FERNIE, J.D	905
Delta Scuti and/or Dwarf Cepheid:	
AI Canum Venaticorum. The Delta Scuti Variable: Short-Period Variables, Spectroscopic Binaries, and The Bright Star Catalogue. KING, J.R. and LIU, T	220
IRAS Observations of Delta Scuti Variables: Implications for Main-Sequence Mass	326
Loss and an IR Period-Luminosity Relation KING, J.R.	658
SA 106 1024. The Variable Star LANDOLT, A.U	
V567 Ophiuchi. A Photometric and Spectroscopic Study of POWELL, J.M.,	-
JONER, M.D., and MCNAMARA, D.H	131
Long-Period:	
Novae: See NOVAE	
RR Lyrae:	
Delta-S Measurements for Eight Field RR Lyrae Stars. MENDES DE OLIVEIRA, C. and	
SMITH,H.A.	
Delta-S Metal Abundances of Field RR Lyrae Stars. SMITH, H.A	
Period Length and the Blazhko Effect in RR Lyrae Stars. GLORIA, K.A	330
Dublicity, SAHA.A. and WHITE.R.E.	119
RV Tauri:	140
Spectrum:	
Supernovae: See SUPERNOVAE	
T Tauri:	
Photoelectric Observations of Moderate to Rapidly Rotating Pre-Main-Sequence Stars	
in the Orion Nebula Cluster. WALKER, M.F	726
Individual:	
42 Persei. The Ellipsoidal Variable: Observations and Model. MARTIN, B.E.,	
HUBE, D.P., and LYDER, D.A	153
NSV 1710. The Visual Counterpart to Suspected Variable HAKKILA, J. and	
PIERCE, J.N.	
R Coronae Borealis in 1988. FERNIE, J.D.	
R Coronae Borealis in 1989. FERNIE, J.D	
V814 Herculis V441 Herculis and in 1989. FERNIE, J.D	
VISUAL BINARIES: See BINARY STARS	. 43
VISUAL BINARIES. See BINARY STARS	
BY Camelopardalis. IUE and Optical Data During the Low State of HO538+608 ().	
SZKODY,P., DOWNES,R.A., and MATED,M.	310
The M-Dwarf Contribution to the Diffuse Soft X-Ray Background Revisited.	
CAILLAULT, JP	989
Optical Variability of the Low-Mass, X-Ray Binary 1556-605. SCHMIDTKE, P.C	144